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TITLE: NEW 4,4'-DISUBSTITUTED BIS(2,6-DIISOPROPYL-PHENYL)
CARBODIIMIDE, ITS PRODUCTION AND USE,
AND
4-SUBSTITUTED 2,6-DIISOPROPYLPHENYLISOCYANATE USED FOR
PRODUCTION OF THE SAME

PUBN-DATE: July 12, 1994

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ABSTRACT:

PURPOSE: To provide the new 4,4'-disubstituted bis(2,6-diisopropyl-phenyl) carbodiimide which is useful as a stabilizer for polyaddition or polycondensation products containing combined ester groups against hydrolytic degradation and a stabilizer for polyurethane against hydrolysis.

CONSTITUTION: 4,4'-Disubstituted bis(2,6-diisopropyl-phenyl) carbodiimide of formula I (R is 1-methyl-1-phenylethyl, phenoxy or tert.-butyl), e.g. [4-(1-methyl-1-phenylethyl)-2,6-diisopropylphenyl]carbodiimide. The compounds of formula I are obtained by condensing a new 4-substd2,6-diisorppylphenyl isocyanate in the presence of a catalyst. The compounds of formula I do not require an additional process of homogenization and are useful as anti-hydrolysis agents for ester-containing plastics, preferably polyurethane, particularly for TPU in which it can be dissolved homogeneously.

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